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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/006,373	10/29/2001	Hiroshi Sasaki	01697/LH	1645		
1933	1933 7590 10/06/2004			EXAMINER		
FRISHAUF, HOLTZ, GOODMAN & CHICK, PC 767 THIRD AVENUE			FINEMAN	FINEMAN, LEE A		
25TH FLOOR		ART UNIT	PAPER NUMBER			
NEW YORK, NY 10017-2023			2872			

DATE MAILED: 10/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

					- 20			
		Application No	> .	Applicant(s)				
Office Action Summary		10/006,373		SASAKI ET AL.				
		Examiner		Art Unit				
		Lee Fineman		2872				
Period fo	The MAILING DATE of this communic or Reply	cation appears on the cov	er sheet with the co	rrespondence add	ress			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIO nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu- period for reply specified above is less than thirty (30) operiod for reply is specified above, the maximum state are to reply within the set or extended period for reply we reply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, ho inication. of days, a reply within the statutory no utory period will apply and will expiritly, by statute, cause the application.	wever, may a reply be time ninimum of thirty (30) days e SIX (6) MONTHS from the to become ABANDONED	ely filed will be considered timely. ne mailing date of this cor (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed	d on <i>08 July 2004</i> .						
•	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) 11-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 11-27 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers				•			
10)⊠	The specification is objected to by the The drawing(s) filed on 29 October 20 Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	001 is/are: a) \square accepted accepted accepted accepted accepted accepted by the correction is required if the correction is required if the correction is required.	d in abeyance. See the drawing(s) is obje	37 CFR 1.85(a). ected to. See 37 CFI	R 1.121(d).			
Priority (under 35 U.S.C. § 119							
12)⊠ a)	Acknowledgment is made of a claim f All b) Some * c) None of: 1. Certified copies of the priority of 3. Copies of the certified copies of application from the Internation See the attached detailed Office action	documents have been red documents have been red of the priority documents hal Bureau (PCT Rule 17	ceived. ceived in Applicatio have been received 2(a)).	on No d in this National S	Stage			
Attachmen	et(s) ce of References Cited (PTO-892)	4) [Interview Summary (PTO-413)				
2) Notice 3) Infor	ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or F er No(s)/Mail Date	O-948) PTO/SB/08) 5)	Paper No(s)/Mail Dat Notice of Informal Pa Other:	e	·152)			

DETAILED ACTION

This Office Action is in response to an amendment filed 8 July 2004. Claims 11-27 are pending.

Priority

1. The translation of the foreign priority papers has been received.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 12-13, 15-16, 18 and 20-21, 23-24 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schoeppe et al., U.S. Patent No. 6,167,173, in view of Keränen et al., U.S. Patent No. 5,029,245.

Schoeppe et al. disclose a laser microscope (fig. 1), which irradiates a sample (5) with a laser light (13.2) including lines of different emission wavelengths (column 3, lines 15-22) through an objective lens (4), and detecting a fluorescent light from the sample (column 3, lines 49-57), said laser microscope comprising a monitoring section (19-21); including a monitoring diode (19) and a controller (36, 34) configured to receive an output signal of the diode and controlling said laser light for each of said emission wavelengths (column 4, lines 1-7) and wherein said controller receives the output signal of said diode and controls respective light

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intensities of the lines of different of emission wavelengths of said laser light to be constant; an optical fiber (14.2) for guiding said laser light into a laser microscope main body wherein said monitoring section (19-21) including a monitoring diode (19) are disposed on a light emission side of said optical fiber (fig. 1); an acousto-optical element (AOTF within 13.2), disposed on an optical path of said laser light, configured to receive said control signal outputted from said control unit and setting the respective light intensities of the lines of different emission wavelengths included said laser light to be constant; and a beam splitter (18) configured to split a part of said laser light and guiding the part into said monitoring section. Schoeppe et al. disclose the claimed invention except for wherein the monitoring section is a spectral resolution section configured to spectrally resolve said laser light into the lines of different emission wavelengths; and a light receiving element array configured to simultaneously receive the lines of different emission wavelengths such that each emission wavelength of said spectrally-resolved laser light is respectively received by one of said light receiving elements; wherein said spectral resolution section is any one selected from a group including of a prism, a diffraction grating, and a beam splitter. Keränen et al. teaches a system (fig. 1) with a monitoring system that includes a spectral resolution section (3, 4), which is a diffraction grating, configured to spectrally resolve light into the lines of different emission wavelengths (column 3, line 53); and a light receiving element array (7) configured to simultaneously receive the lines of different emission wavelengths such that each emission wavelength of said spectrally-resolved light is respectively received by one of said light receiving elements; and wherein a controller (9) is configured to receive the output signal of said light receiving element array and outputting a control signal for simultaneously setting respective light intensities of the lines of different emission wavelengths included said

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laser light to be constant (column 4, lines 1-14). It would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the monitoring section of Schoeppe et al. with that of Keränen et al. to provide accurate detection of many different wavelengths with no moving parts (Keränen, column 2, lines 16-22).

4. Claims 14, 17, 22 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schoeppe et al. in view of Keränen et al., as applied to claims 12 and 21 above, and further in view of Lee, U.S. Patent No. 4,449,821.

Schoeppe et al. in view of Keränen et al., as applied to claims 12 and 21 above disclose the claimed invention except for explicitly stating wherein said light receiving element array comprises either one of a split photodiode and a solid-state image sensing device; and wherein said controller is configured to receive the output signal of said light receiving element array and simultaneously control setting the respective light intensities of the lines of different emission wavelengths included in said laser light to be constant. Lee teaches a system (fig. 1) with a light receiving element array (6) which includes a split photodiode detector and a control system (2) which is configured to receive the output signal of said light receiving element array and simultaneously control setting the respective light intensities of the lines of different emission wavelengths included in said laser light to be constant (column 4, line 43-column 5, line 45). It would have been obvious to one of ordinary skill in the art at the time the invention was made to replace light receiving element array and controller of Schoeppe et al. in view of Keränen et al. with that of Lee to provide faster corrections of light variation in the system.

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5. Claims 10, 11, 19 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schoeppe et al. in view of Keränen et al., as applied to claims 12 and 21 above, and further in view of Eastman et al., U.S. Patent No. 5,684,582.

Schoeppe et al. in view of Keränen et al., as applied to claims 12 and 21 above further disclose a collimator lens (16, Schoeppe) configured to collimate said laser light guided by the optical fiber. Schoeppe et al. in view of Keränen et al., as applied to claims 12 and 21 above disclose the claimed invention except for a converging lens disposed between said spectral resolution section and said light receiving element array and configured to converge the lines of different emission wavelengths. Eastman et al. teaches spectral resolution unit (fig. 1) including a prism (column 4, lines 6-7) and a converging lens (66). It would have been obvious to one of ordinary skill in the art at the time the invention was made to add the converging lens of Eastman et al. to the system of Schoeppe et al. in view of Keränen et al. to prevent stray light or to be able to image the light. Further, regarding claim 11, the monitoring section of Schoeppe et al. in view of Keränen et al. which includes the collimator lens, the beam splitter, the spectral resolution section, the light receiving element array, and the converging lens from Eastman et al. are formed into one block (within the scanning unit of the microscope), and the block is constituted to be attachable/detachable with respect to a main body (M) of the laser microscope.

Response to Arguments

6. Applicant submitted a translation of the foreign priority papers and perfected the foreign priority date. Therefore, the previous rejection has been withdrawn.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lee Fineman whose telephone number is (571) 272-2313. The examiner can normally be reached on Monday - Friday 7:30 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LAF

October 4, 2004

MARK A. ROBINSON PRIMARY EXAMINER